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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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QC ABSTRACT

Nameof Work:Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Material	-	1	1	Cement	One Test Per Lot
					Sand, Aggregates	
2	M25	82.22 Cum	5	5	Concrete Cube Compressive Strength	-
3	Steel	3.70 Tonne	1	1	-	-
4	Slab (100mm)	186.30 Sqm	1	1	Concrete Core Compressive Strength	-
5	Kerb	451.00 Nos	1	1	Concrete Core Compressive Strength	-
6	GSB - V	294.35 Cum	2	2	-	-
7	WMM	319.73 Cum	-	-	-	-
		Gradation	4	4	-	-
		AIV	2	2	-	-
		Shape Test	2	2	-	-
		Atterberg Limits	4	4	-	-
8	DBM	71.05 Cum	-	-	-	-
		Quality of Binder	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Stability of Mix	1	1	-	-
		Bitumen content	2	2	-	-
9	BC	42.63 Cum	2	2	-	-
		Quality of Binder	-	-	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Stability of Mix	1	1	-	-
		Bitumen content	1	1	-	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಿಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23 Date: 14.05.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	April- 2022
DATE OF TESTING	:	12.05.2022 to 14.05.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

AE-12

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

Date : 14.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of Work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Date of Testing : 14.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	135	13.50	21.90	78.1	75-100
1.18	182	18.20	40.10	59.9	55-90
600 Micron	156	15.60	55.70	44.3	35-59
300 Micron	220	22.00	77.70	22.3	8-30
150 Micron	168	16.80	94.50	5.5	0-10

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Authorised Signatory

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

Date : 14.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client Agency : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Name of Work : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.
: Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Date of Testing : 14.05.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	17	1.70	1.70	98.3	90-100
1.18	36	3.60	5.30	94.7	70-100
600 Micron	85	8.50	13.80	86.2	40-100
300 Micron	256	25.60	39.40	60.6	5-70
150 Micron	482	48.20	87.60	12.4	0-15

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Date : 14.05.2022

Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of Work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Date of Testing : 14.05.2022

IS Code : IS 383:2016

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2426	48.5	52.3	47.7	25-55
	1950	39.0	91.3	8.7	0-10

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23 Date : 27.06.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda), Contractor, Bangalore.**

Name of Work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Date of Testing : 14.05.2022

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	174	1.16	1.16	98.84	95-100
20	7994	53.29	54.45	45.55	30-70
10	3096	20.64	75.09	24.91	10-35
4.75	2999	19.99	95.09	4.91	0-5

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	02.06.2022	8.165	384.6	17.09
2	26.05.2022	02.06.2022	8.128	376.9	16.75
3	26.05.2022	02.06.2022	8.146	386.2	17.16

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-2023

Date: 23.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	23.06.2022	8.168	623.3	27.70
2	26.05.2022	23.06.2022	8.176	606.3	26.95
3	26.05.2022	23.06.2022	8.152	615.8	27.37

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23 Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	02.06.2022	8.169	389.6	17.32
2	26.05.2022	02.06.2022	8.184	393.4	17.48
3	26.05.2022	02.06.2022	8.152	405.2	18.01

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23 Date: 23.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

AE-12

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	23.06.2022	8.168	602.3	26.77
2	26.05.2022	23.06.2022	8.140	619.3	27.52
3	26.05.2022	23.06.2022	8.152	624.5	27.76

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

Date: 08.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

AE 12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2022	08.06.2022	8.168	402.3	17.88
2	01.06.2022	08.06.2022	8.184	388.9	17.28
3	01.06.2022	08.06.2022	8.140	396.4	17.62

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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

Date: 29.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

AE-12

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

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Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2022	29.06.2022	8.168	612.3	27.21
2	01.06.2022	29.06.2022	8.179	609.3	27.08
3	01.06.2022	29.06.2022	8.152	600.9	26.71

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NLDB/W.No.12/2022-23 Date: 08.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2022	08.06.2022	8.184	388.9	17.28
2	01.06.2022	08.06.2022	8.165	405.2	18.01
3	01.06.2022	08.06.2022	8.156	416.2	18.50

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Note:
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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

Date: 29.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2022	29.06.2022	8.168	606.3	26.95
2	01.06.2022	29.06.2022	8.184	626.5	27.84
3	01.06.2022	29.06.2022	8.159	615.8	27.37

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
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Job No.: CACE/BBMP/NLDB/W.No.12/2022-23

Date: 08.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda),** Contractor, Bangalore.

Name of the work : Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ. ಬೆಂಗಳೂರು

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2022	08.06.2022	8.184	384.5	17.09
2	01.06.2022	08.06.2022	8.169	399.6	17.76
3	01.06.2022	08.06.2022	8.152	405.2	18.01

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ. ಬೆಂಗಳೂರು

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